

THUNDERSTORMS AND LIGHTNING

Some thunderstorms can be seen approaching, while others may hit with little warning. It is important to learn and recognize the danger signs and to plan ahead.

BEFORE

Learn the thunderstorm danger signs.

- Dark, towering or threatening clouds
- Distant lightning and thunder

Have disaster supplies on hand:

- Flashlight and extra batteries
- Portable, battery-operated radio and extra batteries
- Emergency food and water
- Nonelectric can opener
- First aid kit and manual
- Essential medicines
- Cash and credit cards
- Sturdy shoes

Check for hazards in the yard.

Dead or rotting trees and branches can fall during a severe thunderstorm and cause injury or damage.

Make sure that all family members know how to respond after a thunderstorm.

Teach family members how and when to turn off gas, electricity, and water.

Teach children how and when to call 9-1-1, police, or the fire department, and which radio station to tune to for emergency information.

Severe Thunderstorm Watches and Warnings

A severe thunderstorm watch is issued by the National Weather Service when the weather conditions are such that severe thunderstorms (damaging winds 58 miles per hour or more, or hail three-fourths of an inch in diameter or greater) are expected in or close to your area during the next few hours. This is the time to locate a safe place in the home and tell family members to watch the sky and listen to the radio or television for more information.

A severe thunderstorm warning is issued when a severe thunderstorm has been sighted or indicated by weather radar. At this point, the danger is very serious and everyone should go to a safe place, turn on a battery-operated radio or television, and wait until authorities indicate that the danger has passed.

Learn how to respond to a tornado and flash flood

Tornadoes are spawned by thunderstorms and flash flooding can occur with thunderstorms. When a “severe thunderstorm warning” is issued, review what actions to take under a “tornado warning” or a “flash flood warning.”

Develop an emergency communication plan

In case family members are separated from one another during a thunderstorm (a real possibility during the day when adults are at work and children are at school), have a plan for getting back together.

Ask an out-of-state relative or friend to serve as the “family contact.” After a disaster, it’s often easier to call long distance. Make sure everyone in the family knows the name, address, and phone number of the contact person.

Contact your local emergency management office or American Red Cross chapter for more information on thunderstorms and lightning.

DURING

If indoors:

- Secure outdoor objects such as lawn furniture that could blow away or cause damage or injury. Take light objects inside.
- Shutter windows securely and brace outside doors.
- Listen to a battery-operated radio or television for the latest storm information.
- Do not handle any electrical equipment or telephones because lightning could follow the wire. Television sets are particularly dangerous at this time.
- Avoid bathtubs, water faucets, and sinks because metal pipes can transmit electricity.

If outdoors:

- Attempt to get into a building or car.
- If no structure is available, get to an open space and squat low to the ground as quickly as possible. (If in the woods, find an area protected by a low clump of trees — never stand underneath a single large tree in the open.) Be aware of the potential for flooding in low-lying areas.
- Kneel or crouch with hands on knees.
- Avoid tall structures such as towers, tall trees, fences, telephone lines, or power lines.
- Stay away from natural lightning rods such as golf clubs, tractors, fishing rods, bicycles, or camping equipment.
- Stay away from rivers, lakes, or other bodies of water.

- If you are isolated in a level field or prairie and you feel your hair stand on end (which indicates that lightning is about to strike), drop to your knees and bend forward, putting your hands on your knees. Do not lie flat on the ground.

If in a car:

- Pull safely onto the shoulder of the road away from any trees that could fall on the vehicle.
- Stay in the car and turn on the emergency flasher until the heavy rains subside.
- Avoid flooded roadways.

Estimating the Distance from a Thunderstorm

Because light travels so much faster than sound, lightning flashes can be seen long before the resulting thunder is heard. Estimate the number of miles you are from a thunderstorm by counting the number of seconds between a flash of lightning and the next clap of thunder. Divide this number by five.

Important: *You are in danger from lightning if you can hear thunder. Knowing how far away a storm is does not mean that you're in danger only when the storm is overhead.*

Hail

Hail is produced by many strong thunderstorms. Hail can be smaller than a pea, or as large as a softball, and can be very destructive to plants and crops. In a hailstorm, take cover immediately. Pets and livestock are particularly vulnerable to hail, so bring animals into a shelter.

AFTER

Check for injuries.

A person who has been struck by lightning does not carry an electrical charge that can shock other people. If the victim is burned, provide first aid and call emergency medical assistance immediately. Look for burns where lightning entered and exited the body. If the strike caused the victim's heart and breathing to stop, give cardiopulmonary resuscitation (CPR) until medical professionals arrive and take over.

Remember to help your neighbors who may require special assistance — infants, elderly people, and people with disabilities.

Report downed utility wires.

Drive only if necessary.

Debris and washed-out roads may make driving dangerous.

Mitigation

Mitigation includes any activities that prevent an emergency, reduce the chance of an emergency happening, or lessen the damaging effects of unavoidable emergencies. Investing in preventive mitigation steps now, such as installing lightning rods to carry the electrical charge of lightning bolts safely to the ground or purchasing flood insurance, will help reduce the impact of severe thunderstorms in the future. For more information on mitigation, contact your local emergency management office.